

iPF5000 Ink Consumption Data

Revised August 7, 2007

Revised test sequence based on forum reader suggestions. **The major change in the testing was to isolate firmware versions 1.23 vs. 1.25.** Time period in this case was forty-five (45) days.

The assumption used for the ink weight remained the same. 1 gram equals 1 milliliter of ink.

Scale used for data collections remained the same. American Weigh Scale Model CH-501. Capacity 500 grams. Scale measures to .01 grams. Calibration weights 500 grams. Typical re-weighing of the same cartridge varied by no more than .02 grams. Each cartridge was weighed two times.

The firmware used was upgraded from Ver 1.23 to Ver 1.25. Printer driver was upgraded to Ver 3.50.

Computer system remained the same with a generic desktop PC, Windows XP Pro and 1GB of memory. The central air conditioning was off during the first two weeks and therefore the ambient temperature of the room the printer is located varied between approximately 60 and 85 degrees Fahrenheit during that time.

Maintenance cartridge free space was checked, showing 60% free space prior to and after the 45-day test.

****During this 45-day period two prints were attempted within a thirty minute period approximately 26 inches long each using the roll feed. Total prints since purchasing the printer (aka The Albatross) eleven months ago are approximately 20 total (thank heavens for the i9900). At the start of the second print the roll gears failed, the paper was pulled back slightly, the sensors did not pick this up and the printer went on it's merry way printing a 26 inch long image with **No** paper. Attempts with Canon technical support reloading the paper roll numerous times were unsuccessful but did help scoop off some excess ink in the printer onto the roll paper. Total paper consumed was approximately 15 feet. Travel time for the closest warranty technician was 16-18 hours round trip via automobile. Gears were replaced. Last week an additional print was attempted. Suffice to say the roll paper repeatedly jammed when feeding. Canon technical support was unable to resolve the problem over the telephone. Today, 8/7/2007 the technician has again begun the long journey from Washington to the Oregon California border.****

6/22/2007 @7:05 - 7:15 P.M. PST (beginning) each cartridge was weighed two times. Printer had remained on from previous tests.

8/7/2007 @9:40 - 9:50 A.M. PST (ending) each cartridge was weighed two times after remaining in standby mode for 45 days. The printer was turned off for the warranty repair.

After weighing the first cartridge the ink cartridge cover on the printer was closed while I answered the telephone. A print head cleaning cycle immediately began upon closing the cover and lasted approximately five minutes. There was no way to determine the amount of ink consumed during this cycle.

iPF5000 in Standby Mode For 45 Days

Ink Consumed During This Period

Cartridge Item Description:	Beginning (g)	Ending (g)	Net Ink Used:
PFI-101 Yellow	79.31 grams	67.36 grams	11.95 grams
PFI-101 Photo Cyan	83.18 grams	74.12 grams	9.06 grams
PFI-101 Cyan	86.61 grams	76.03 grams	10.58 grams
PFI-101 Photo Grey	81.59 grams	72.25 grams	9.34 grams
PFI-101 Grey	78.17 grams	68.66 grams	9.51 grams
PFI-101 Matte Black	82.30 grams	69.52 grams	12.78 grams
PFI-101 Photo Magenta	75.92 grams	64.00 grams	11.92 grams
PFI-101 Magenta	80.04 grams	68.68 grams	11.36 grams
PFI-101 Black	82.04 grams	70.80 grams	11.24 grams
PFI-101 Red	87.87 grams	78.36 grams	9.51 grams
PFI-101 Green	80.66 grams	69.32 grams	11.34 grams
PFI-101 Blue	79.62 grams	66.94 grams	12.68 grams

Total ink consumed during this 45-day standby period was **131.27** grams or milliliters. This was 2.917 milliliters per day.

Conclusions & Opinions:

Possibilities for this variance (firmware version 1.23 vs. 1.25) may be the ambient room temperature that, in my opinion is doubtful. Perhaps more likely, print head cleaning cycles were initiated for whatever reason. These controlled print head cleaning cycles have previously shown to consume from 20 to 40 grams or milliliters of ink in just one cycle. The number and duration of these randomly initiated print head cleaning cycles could be easily determined in a controlled environment by simply focusing a video camera on the printer control panel and electrically activating the camera via a current draw to the printer (beginning of a print head cleaning cycle). This should be the responsibility of Canon USA and not a end user.